

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-200642

(43)Date of publication of application : 22.11.1983

(51)Int.Cl.

H04B 9/00

G02B 5/14

G06F 3/00

G06F 3/00

G06F 3/04

H04L 11/00

(21)Application number : 57-083823

(71)Applicant : FUJITSU LTD

(22)Date of filing : 18.05.1982

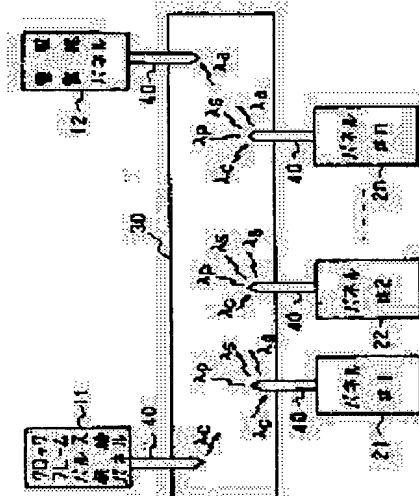
(72)Inventor : MOCHIDA YUKIHIRO  
TOGE TAKASHI  
YAMAGUCHI KAZUO  
MINAMI TAKATOSHI

## (54) WAVELENGTH DIVISION MULTIPLE TYPE OPTICAL BUS SYSTEM

### (57)Abstract:

**PURPOSE:** To simplify controlling and to improve the flexibility and extendability of a network, by using a bus constitution system, in which light is scattered and propagated into closed space, to assign a wavelength for each kind of signals.

**CONSTITUTION:** A duct 30, which consists of closed space to avoid the influence of external light, repeatedly reflects light projected into it and propagates the light all over the inside. Since a clock signal or frame signal is commonly and one-sidedly supplied to panels 21 ~ 2n from a panel 11, a wavelength of  $\lambda_c$ , which is independent of other signals, is assigned to it. Also, since an alarm signal or a monitor signal is transmitted and collected unidirectionally to a monitor panel 12 from the panels 21 ~ 2n, a wavelength of  $\lambda_a$ , which is independent of other signals, is assigned to it. Further, since a main signal is mutually transmitted and received between panels 21 ~ 2n, the same wavelength of  $\lambda_s$  is assigned to the main signal, and, for instance, the panel 21 is made to be of a constitution which transmits signals only when no light from other panels 22 ~ 2n are received.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]